CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/CEMENT/2017-18 Date: 15.12.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	:	Cement
Sample Received on	:	13.12.2017
Period of Testing	:	13.12.2017 to 15.12.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/SAND-Gradation/2017-18 15.12.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 13.12.2017
Date of Testing	: 15.12.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	81.50	60-95	75-100	85-100	95-100
1.18	60.50	30-70	55-90	75-100	90-100
600 Micron	42.50	15-34	35-59	60-79	80-100
300 Micron	22.50	5-20	8-30	12-40	15-50
150 Micron	4.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/AGG/GR/2017-18 15.12.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	13.12.2017
Date of Testing	:	15.12.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.60	95-100	85-100
20	40.48	30-70	0-20
10	20.30	10-35	0-5
4.75	3.30	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Steel/2017-18 18.12.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	18.12.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	517	558	13.15	O.K	O.K

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/Cube/2017-18 17.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.01.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2017	17.01.2018	8.108	493.5	21.93
2	20.12.2017	17.01.2018	8.210	508.5	22.60
3	20.12.2017	17.01.2018	8.308	514.2	22.85

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KRIDL/W.No.14/CSR-12/516b/Cube/2017-18

17.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
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* Name of the work	: Improvements to roads and drains 2nd, 3rd, 4th & 5th cross Vinayaka Nagara (Karekallu) in Ward No.14 (Bagalagunte), BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/251/2017-18 Dated: 13.12.2017
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 17.01.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.12.2017	17.01.2018	8.118	498.6	22.16
2	20.12.2017	17.01.2018	8.229	526.6	23.40
3	20.12.2017	17.01.2018	8.336	542.5	24.11

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